

AMENDMENT AND RESPONSE UNDER 37 CFR 1.112
Serial Number: 09/211,942
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Title: POINTING DEVICE WITH INTEGRATED AUDIO INPUT

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Conclusion

The Examiner is invited to telephone Applicant's attorney (612) 371-2160 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully submitted,

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I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

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March 7, 2002
Date of Transmission

Docket No. 00884.078US1

Client Ref. No. P6563

Clean Version of Pending Claims**POINTING DEVICE WITH INTEGRATED AUDIO INPUT**

Applicant: Jim A. Larson et al.

Serial No.: 09/211,942

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4. (Once Amended) A personal digital assistant (PDA) system comprising:
a mobile personal digital assistant having a touch screen display for producing input
signals in response to physical contact; and
an input stylus comprising:
a housing having a first end for providing physical contact with the touch screen, and an
opposite second end;
a microphone located at the second end for receiving acoustical voice signals;
a transmitter located in the housing for transmitting electronic voice signals received by
the microphone to the mobile personal digital assistant; and
a switch circuit for activating and deactivating both the microphone and the transmitter.

5. The personal digital assistant system of claim 4 wherein the mobile personal digital
assistant is electrically connected via one or more wires to the input stylus for receiving
transmitted voice signals.

6. The personal digital assistant system of claim 4 wherein the mobile personal digital
assistant has a receiver for receiving transmitted voice signals from the input stylus via wireless
communication.

7. The personal digital assistant system of claim 4 wherein the input stylus further
comprises a power supply located within the housing.

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8. A processing system comprising:

a computer processor comprising voice translation software for instructing the computer processor to translate voice signals into machine readable data, the computer processor further comprising a transmitter for transmitting translated voice data;

a personal digital assistant (PDA) having a touch screen display for producing input signals in response to physical contact, the PDA further comprising a receiver for receiving the transmitted translated voice data from the computer processor; and

an input stylus comprising:

a housing having a first end for providing physical contact with the touch screen and an opposite second end;

a microphone located at the second end for receiving acoustical voice signals;

a transmitter located in the housing for transmitting electronic voice signals received by the microphone to either the computer processor or the personal digital assistant; and
a switch circuit for activating the transmitter.

9. The processing system of claim 8 wherin the input stylus transmits the voice signals to the computer processor via wireless communication, and the computer processor transmits translated voice signal data to the personal digital assistant.

10. The processing system of claim 8 wherein the input stylus transmits voice signals to the PDA, via a wireless communication and wherein the PDA and the computer processor are configured for bi-directional data communication.

11. The processing system of claim 8 wherein the stylus and the PDA are electrically connected using at least one wire.

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12. A method of inputting data to a personal digital assistant (PDA), the method comprising:
receiving input voice signals with a microphone located in a hand-held stylus;
transmitting the voice signals from the hand-held stylus to the personal digital assistant;
and
translating the received input voice signals into computer readable data and storing the computer readable data in the personal digital assistant.
13. The method of claim 12 wherein translating the voice signals comprises:
receiving the input voice signals transmitted from the hand-held stylus with a personal computer,
translating the input voice signals with the personal computer; and
transmitting the translated input voice signals from the personal computer to the personal digital assistant.
14. The method of claim 12 wherein translating the received voice signals comprises:
receiving the input voice signals from the hand-held stylus with the personal digital assistant;
transmitting the input voice signals from the personal digital assistant to a personal computer;
translating the input voice signals with the personal computer; and
transmitting the translated input voice signals from the personal computer to the personal digital assistant.
15. The method of claim 12 wherein translating the received input voice signals is performed with the personal digital assistant.

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16. A method for a personal computer (PC) to provide voice recognition processing to a personal digital assistant (PDA), comprising:
wirelessly transmitting, by a stylus to the PC via a touch screen on the PDA, received electronic voice signals;
wirelessly receiving, by the PC, the electronic voice signals;
performing, by the PC, voice recognition processing on the electronic voice signals to produce translated text;
wirelessly transmitting, by the PC to the PDA, the translated text; and
displaying at least part of the translated text on the PDA.

17. The method as recited in claim 16, further comprising:
storing electronic voice signals on the PDA when a stylus attempts to wirelessly transmit the electronic voice signals to the PC via a touch screen on the PDA, but the PC is not within communicating distance;
playing the stored electronic voice signals in place of displaying translated text on the PDA until the PC is within communicating distance; and
wirelessly transmitting the electronic voice signals from the PDA to the PC, once the PC is within communicating distance.